

**WE CLAIM:**

1. (currently amended) Inbred corn seed of the line designated G3601, representative seed of said line have been deposited in the ATCC under accession number [X]PTA-6094.
2. (previously presented)      A corn plant, and its parts, produced by the seed of Claim 1.
3. (previously presented)      A tissue culture of regenerable cells, or protoplasts of said cells, produced from the plant of claim 2, wherein the cells or protoplasts of the tissue culture regenerates plants having all of the physiological and morphological characteristics of G3601.
4. (previously presented)      The tissue culture of regenerable cells according to Claim 3, the cells or protoplasts of said cells being selected from the group consisting of: leaves, pollen, embryos, roots, root tips, meristem, ovule, anthers, silk, flowers, kernels, ears, cobs, husks and stalks.
5. (previously presented)      A corn plant having all of the physiological and morphological characteristics of G3601 regenerated from the cells of the tissue culture of Claim 3.
6. (cancelled)
7. (cancelled)
8. (cancelled)
9. (cancelled)

10. (cancelled)

11. (cancelled)

12. (cancelled)

13. (cancelled)

14. (cancelled)

15. (cancelled)

16. (cancelled)

17. (cancelled)

18. (cancelled)

19. (cancelled)

20. (previously presented)      Pollen of the corn plant of claim 2.